

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

1-8. (cancelled)

9. (new) A tyre for a vehicle wheel, comprising:

a torus-shaped carcass;

a tread located on a periphery of the carcass; and

a pair of axially-facing side walls ending with beads reinforced with bead wires and respective bead-filling elements for mounting the tyre on a corresponding rim;

wherein the tyre comprises rubberized fabrics reinforced with metal reinforcing cords,

wherein at least one of the metal reinforcing cords comprises at least two wires helicoidally double-twisted around a longitudinal axis of the metal cord, and

wherein at least one of the wires is permanently deformed by a substantially-sinusoidal deformation lying in a plane.

10. (new) The tyre of claim 9, wherein the wires each comprise a diameter greater than or equal to about 0.10 mm and less than or equal to about 0.50 mm.

11. (new) The tyre of claim 9, wherein the wires each comprise a diameter greater than or equal to 0.10 mm and less than or equal to 0.50 mm.

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12. (new) The tyre of claim 9, wherein each of the wires is permanently deformed.

13. (new) The tyre of claim 9, wherein the helicoidally double-twisted wires comprise a stranding pitch greater than or equal to 3 mm and less than or equal to 50 mm.

14. (new) The tyre of claim 9, wherein the helicoidally double-twisted wires comprise a stranding pitch greater than or equal to 6 mm and less than or equal to 30 mm.

15. (new) The tyre of claim 9, wherein the helicoidally double-twisted wires comprise a stranding pitch equal to about 16 mm.

16. (new) A tyre for a vehicle wheel, comprising:

a torus-shaped carcass;

a tread located on a periphery of the carcass; and

a pair of axially-facing side walls ending with beads reinforced with bead wires and respective bead-filling elements for mounting the tyre on a corresponding rim;

wherein the tyre comprises rubberized fabrics reinforced with metal reinforcing cords,

wherein at least one of the metal reinforcing cords comprises at least two wires,

wherein at least one of the wires is permanently deformed by a substantially-sinusoidal deformation lying in a plane, and

wherein the wires are helicoidally double-twisted together around a longitudinal axis of the metal cord.

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17. (new) The tyre of claim 16, wherein the wires each comprise a diameter greater than or equal to about 0.10 mm and less than or equal to about 0.50 mm.

18. (new) The tyre of claim 16, wherein the wires each comprise a diameter greater than or equal to 0.10 mm and less than or equal to 0.50 mm.

19. (new) The tyre of claim 16, wherein each of the wires is permanently deformed.

20. (new) The tyre of claim 16, wherein the helicoidally double-twisted wires comprise a stranding pitch greater than or equal to 3 mm and less than or equal to 50 mm.

21. (new) The tyre of claim 16, wherein the helicoidally double-twisted wires comprise a stranding pitch greater than or equal to 6 mm and less than or equal to 30 mm.

22. (new) The tyre of claim 16, wherein the helicoidally double-twisted wires comprise a stranding pitch equal to about 16 mm.

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